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This diagram shows a cross-sectional view of a pixel array structure. The structure is divided into two main regions: a pixel TFT region (404) and a pixel portion region (407). The pixel TFT region (404) contains TFT elements with gate electrodes (134a, 134b) and channel regions (132a, 132b). The pixel portion region (407) contains pixel elements with gate electrodes (307a, 307b, 308a, 308b, 309a, 309b) and channel regions (310a, 310b). The structure is built on a substrate (128) and includes various insulating and conductive layers.

FIG. 2A

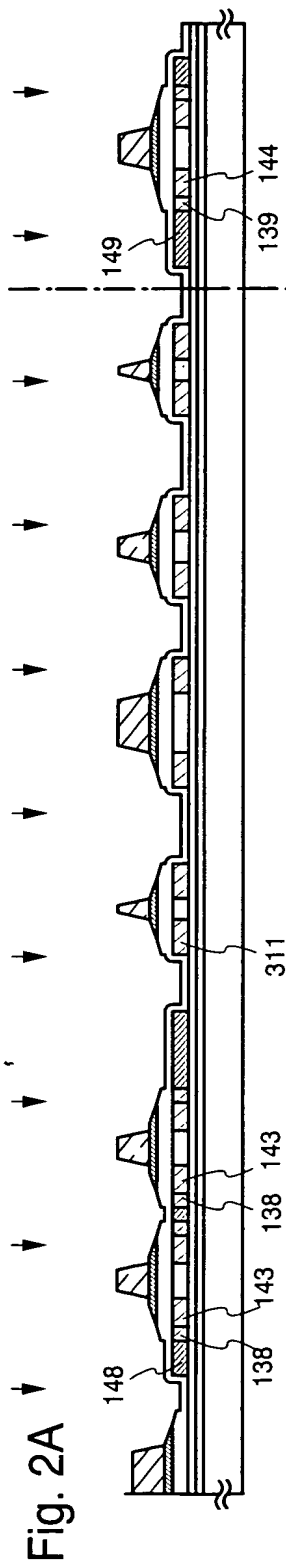


Fig. 2B

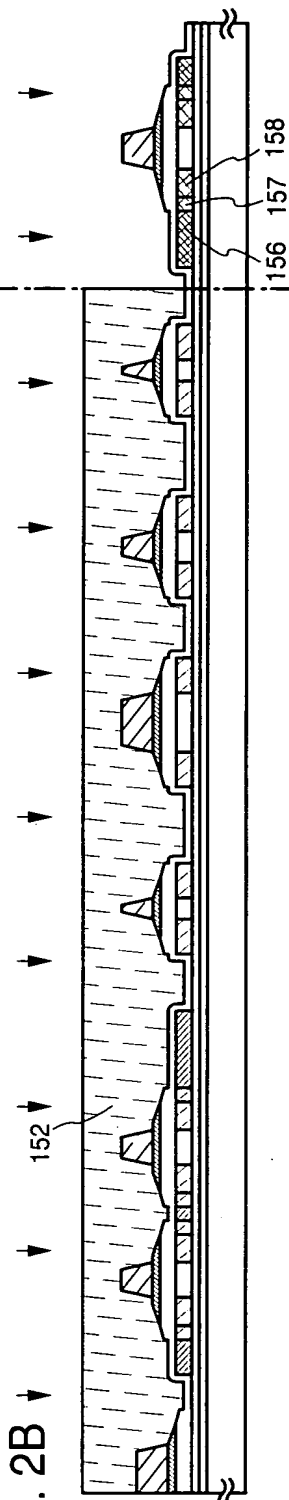
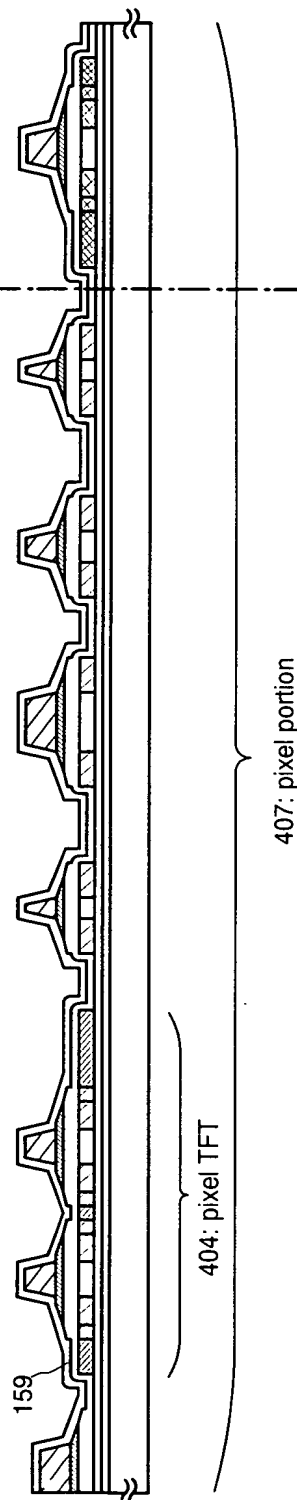


Fig. 2C



407: pixel portion

404: pixel TFT

APPROVED	O.G. FIG.
BY	CLASS SUBC.
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Fig. 3

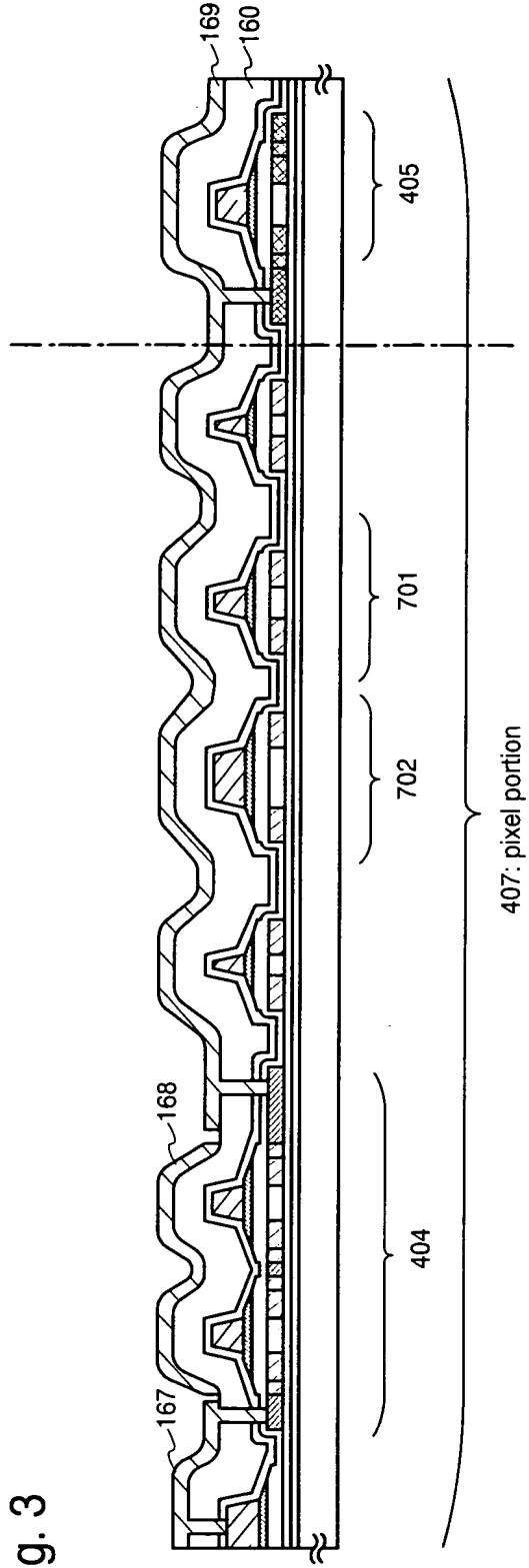
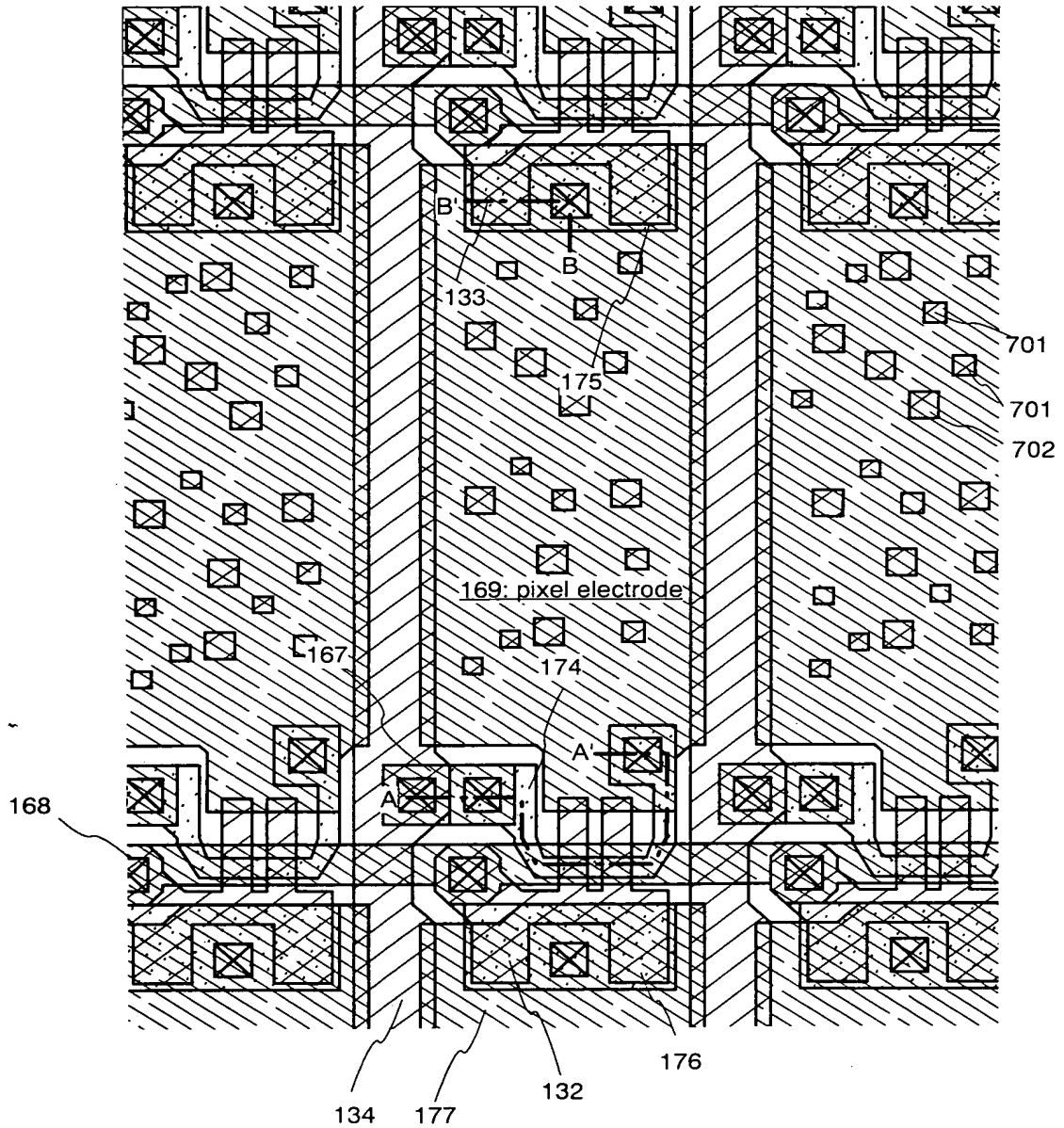


Fig. 5



09841537-042401

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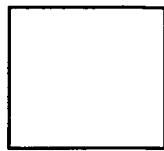


Fig. 6A

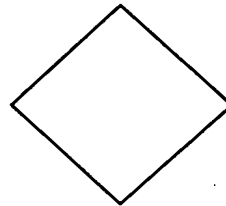


Fig. 6B



Fig. 6C

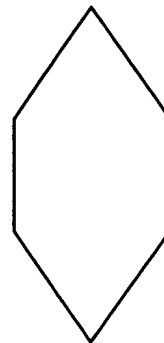


Fig. 6D

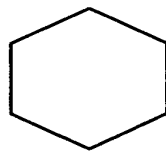


Fig. 6E

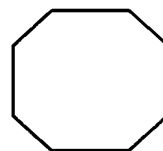


Fig. 6F

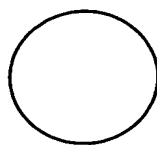
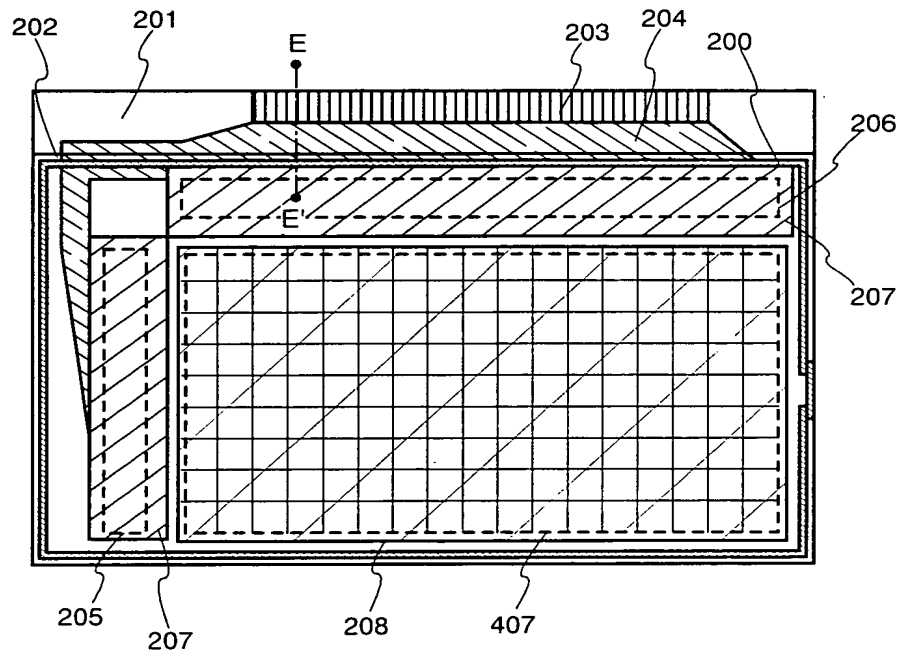


Fig. 6G

034157-04401

Fig. 7



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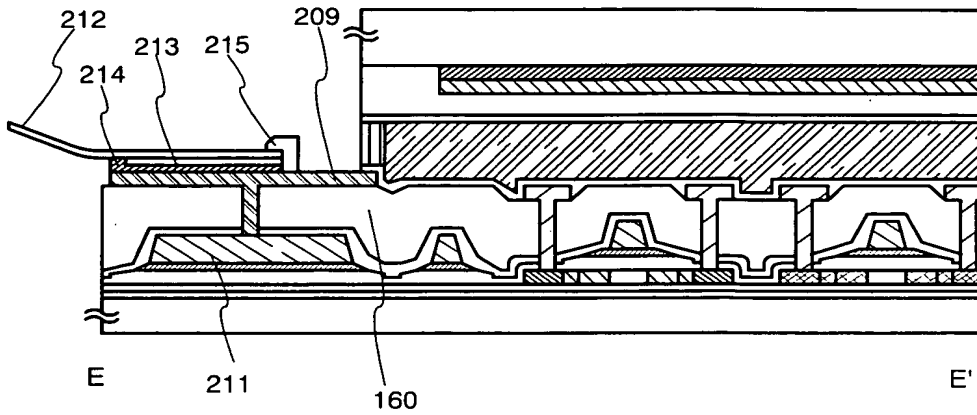


Fig. 8A cross sectional view of E-E'

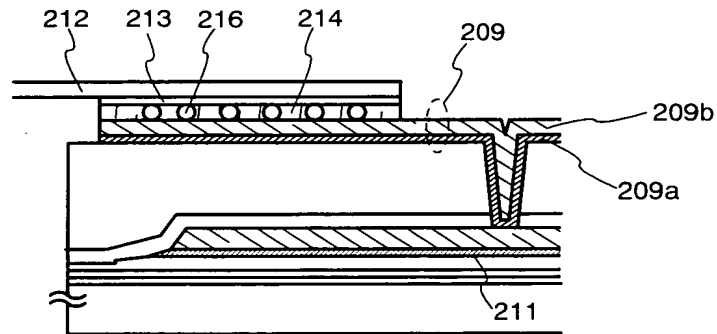


Fig. 8B

004434-0001

FIG. 9A

Fig. 9A

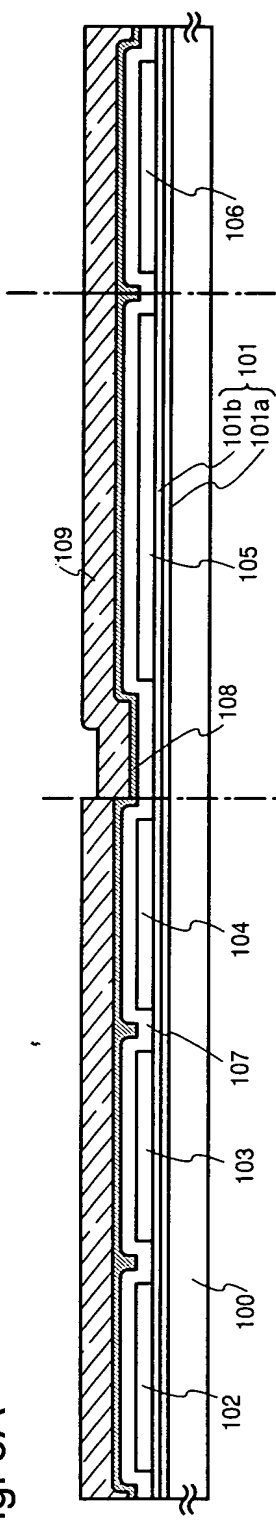


Fig. 9B

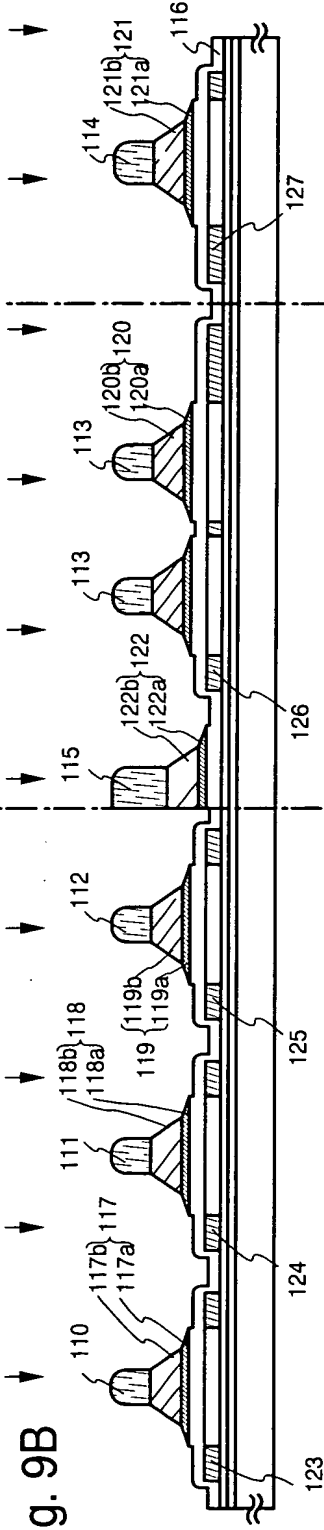
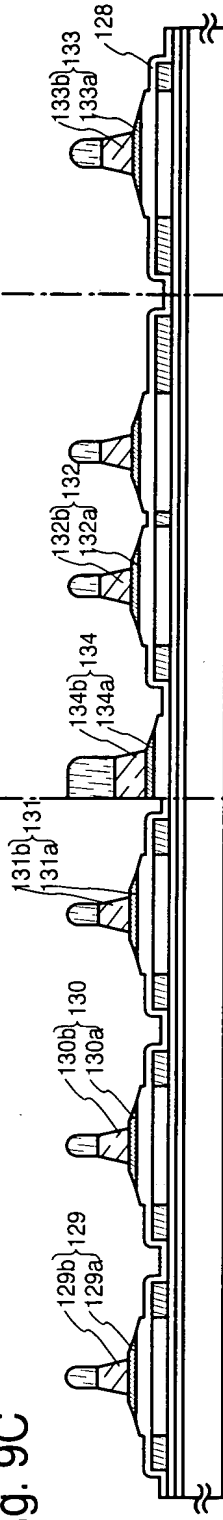


Fig. 9C



TOP 240" / EST 4350

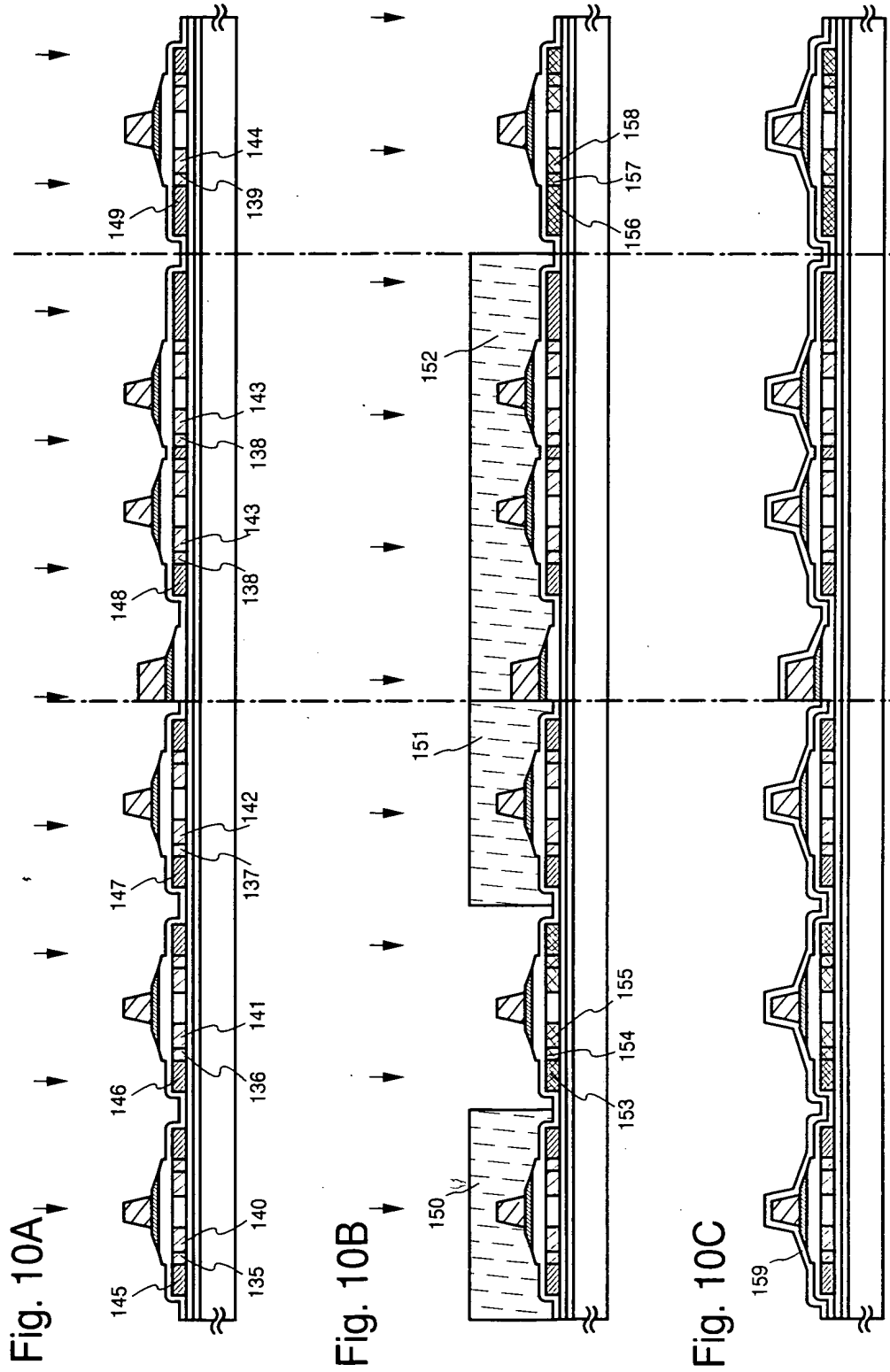


FIG. 11

Fig. 11

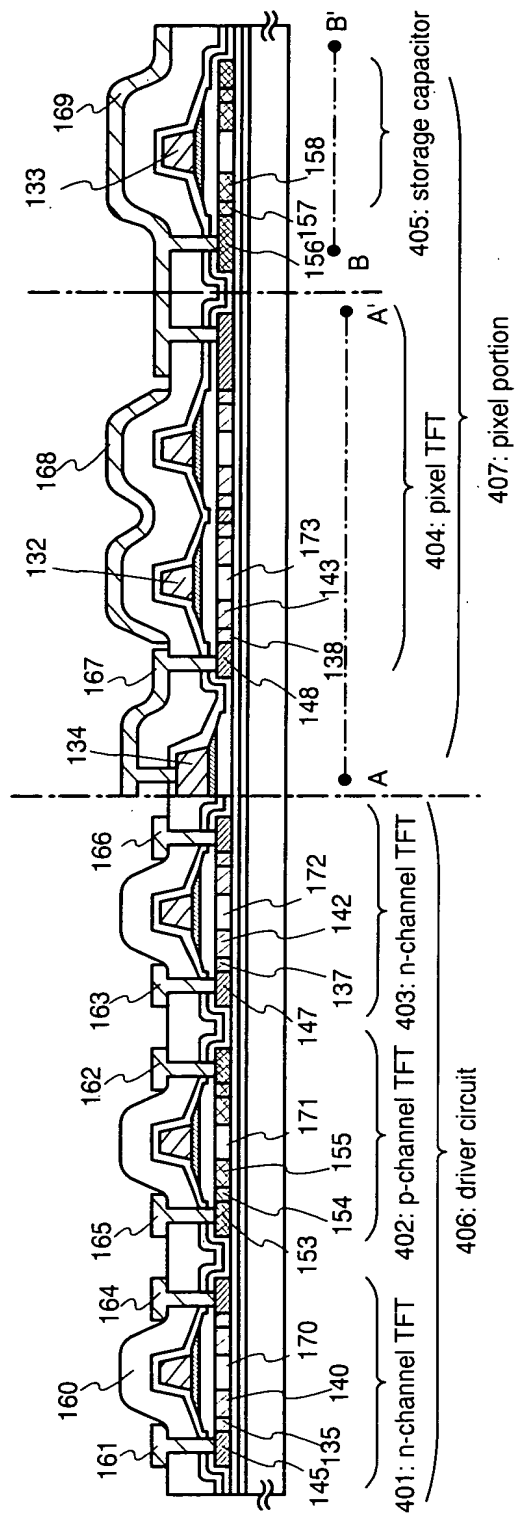
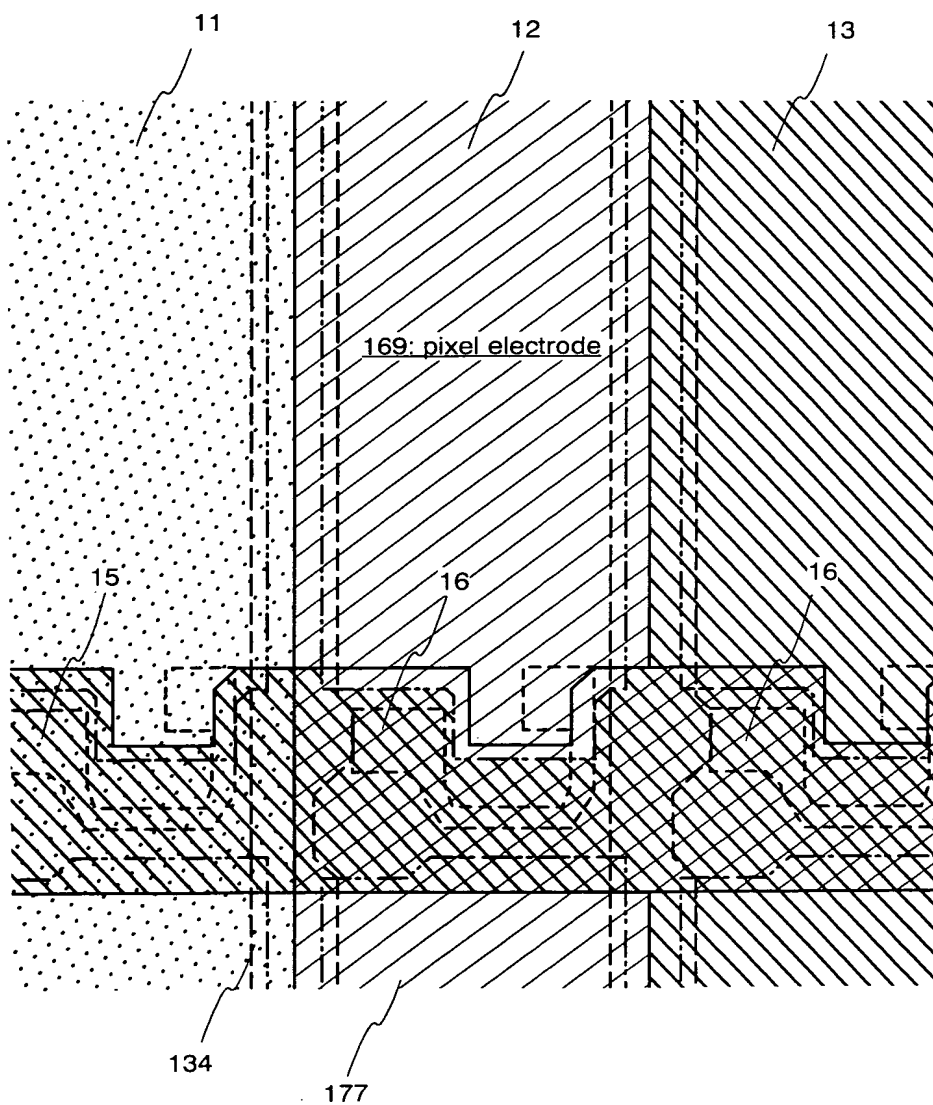


Fig. 12



09414350 "EST-40"

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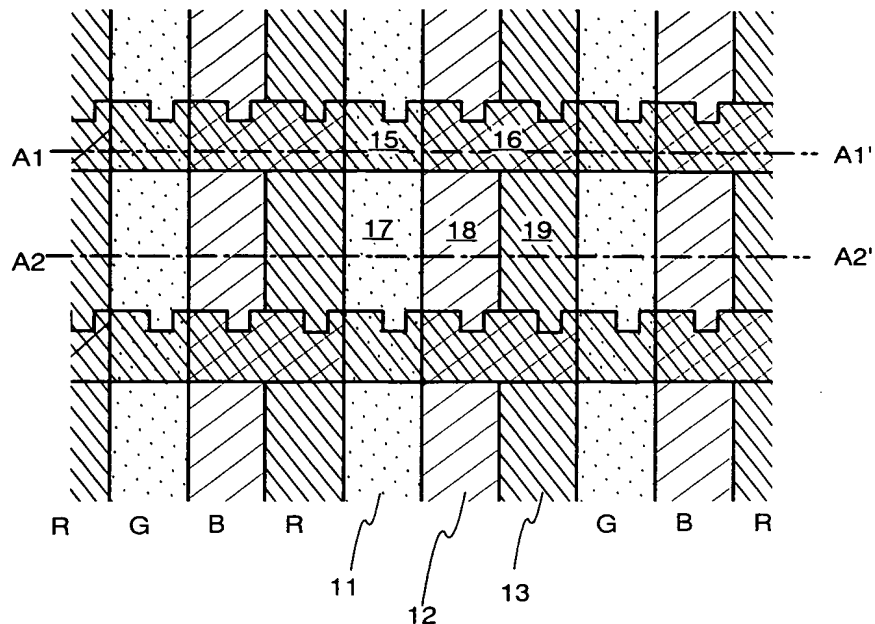


Fig. 13A

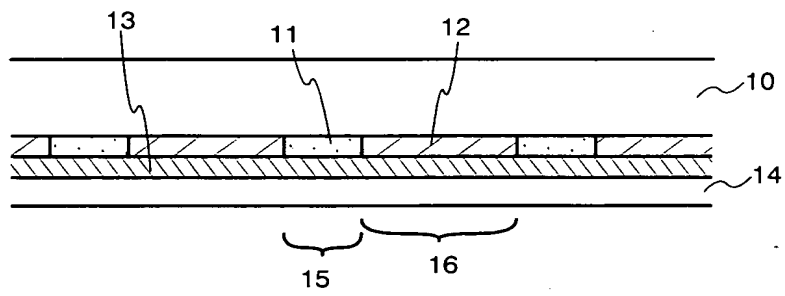


Fig. 13B cross sectional view of A1-A1'

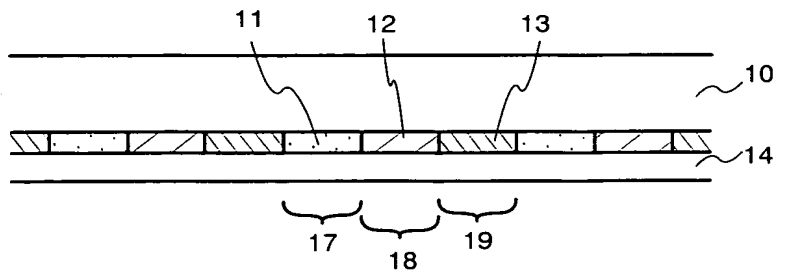


Fig. 13C cross sectional veiw of A2-A2'

Fig. 14A

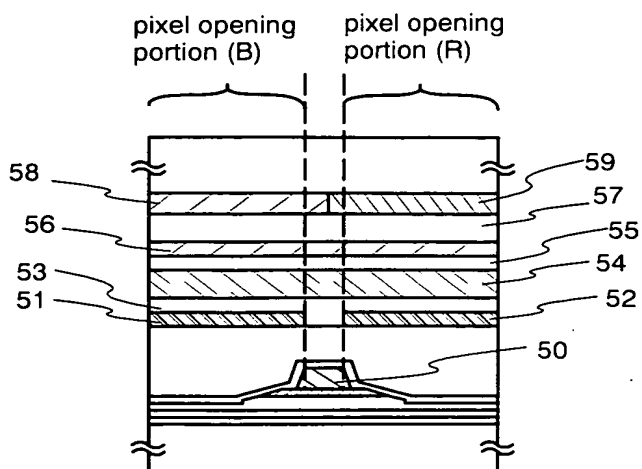


Fig. 14B

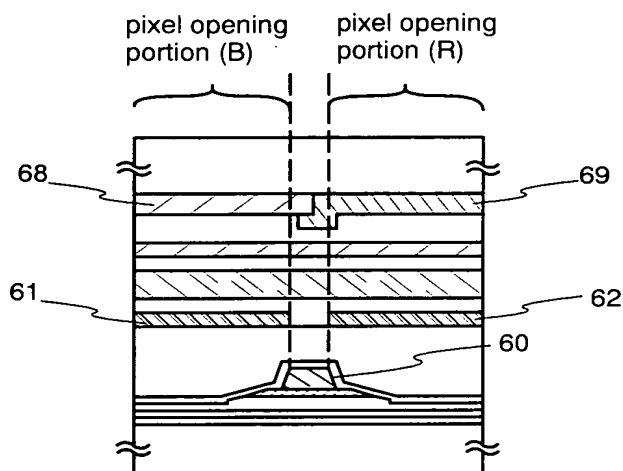
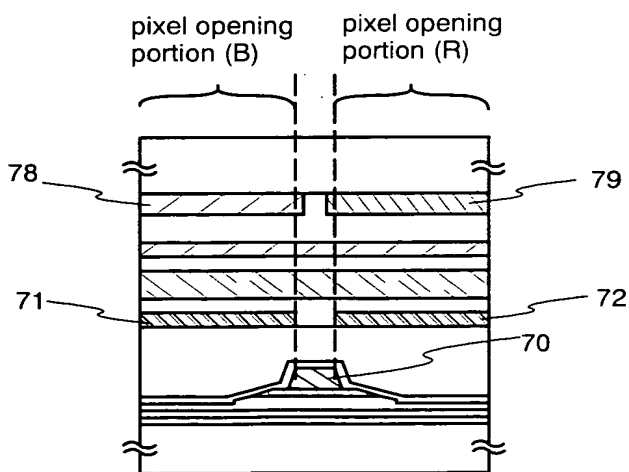


Fig. 14C



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FIG. 15A

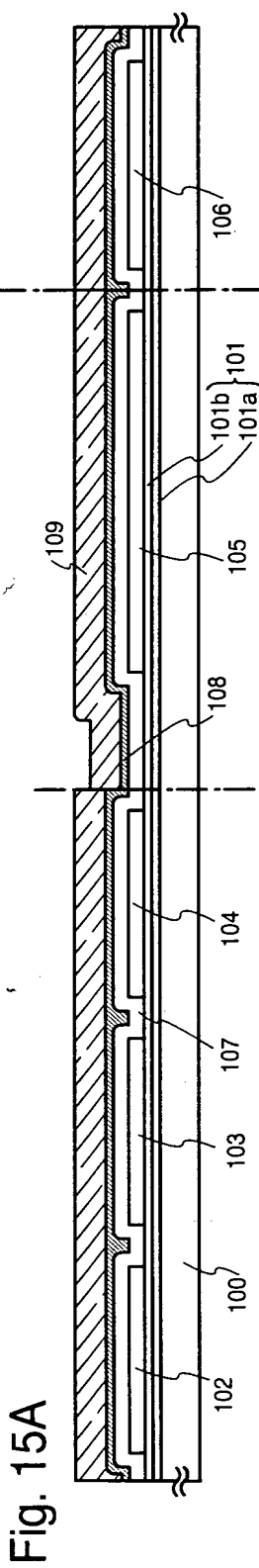


Fig. 15B

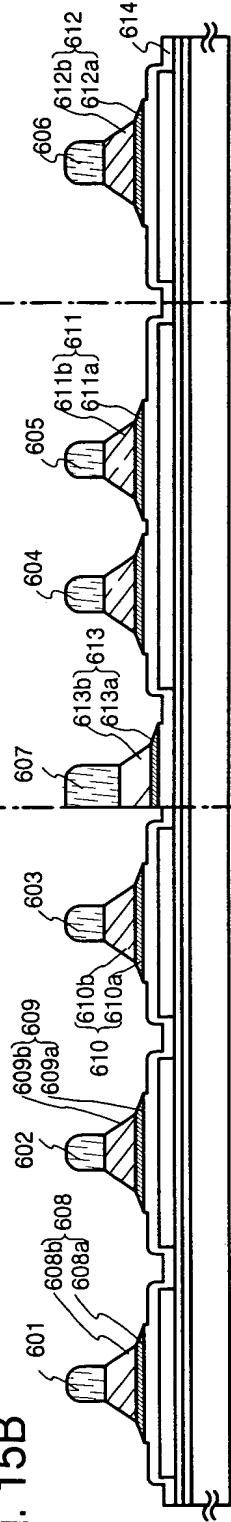


Fig. 15C

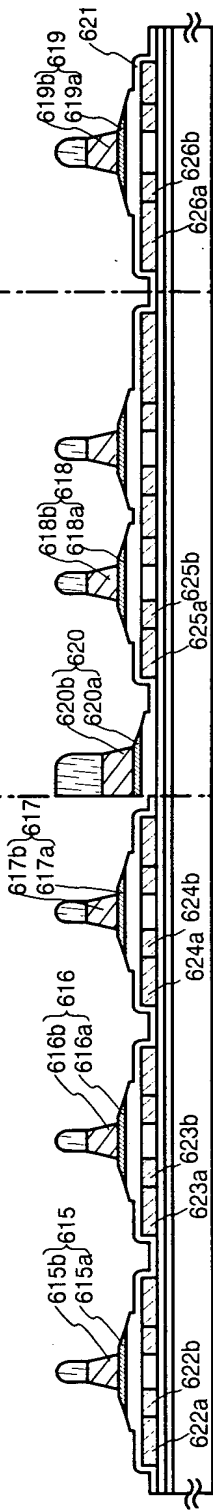


Fig. 15D

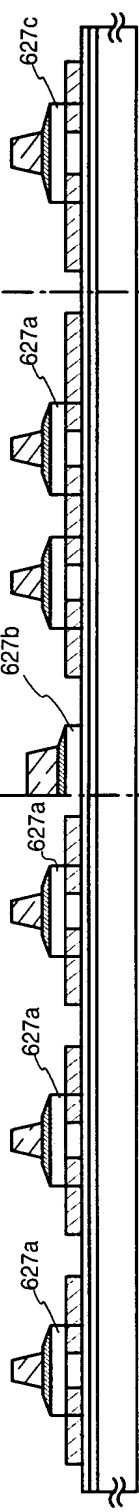


FIG. 16A

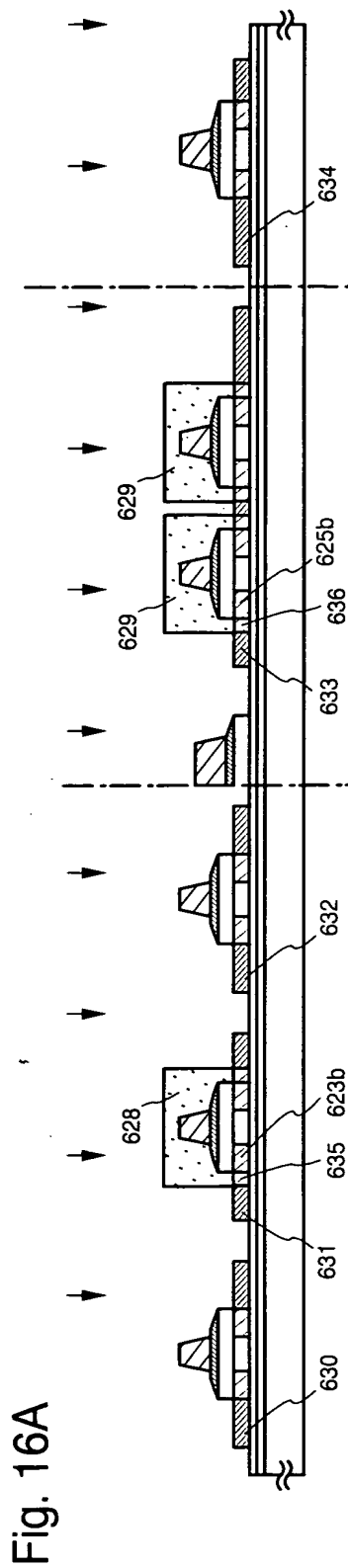


Fig. 16B

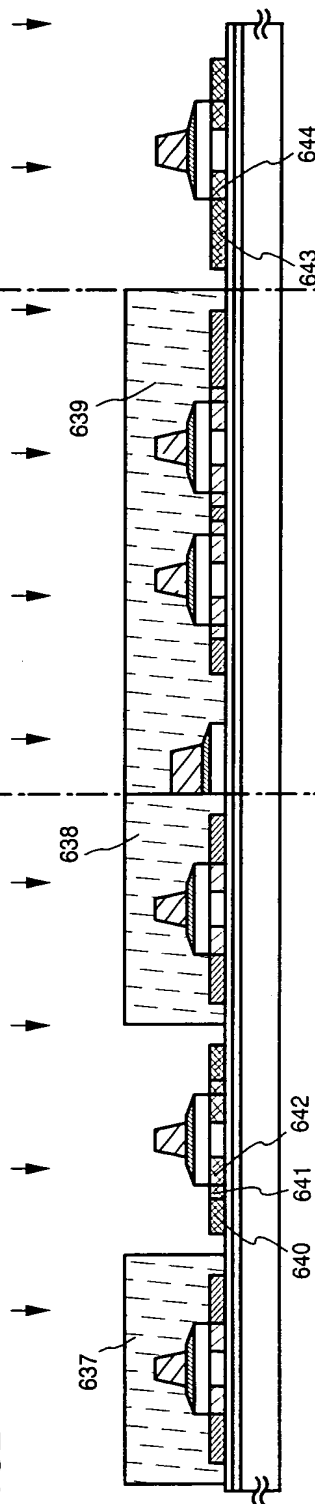
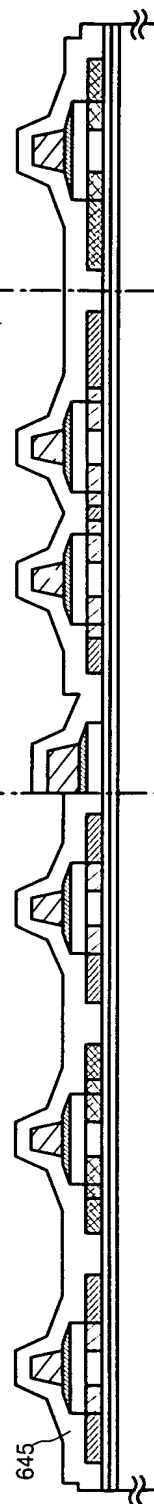


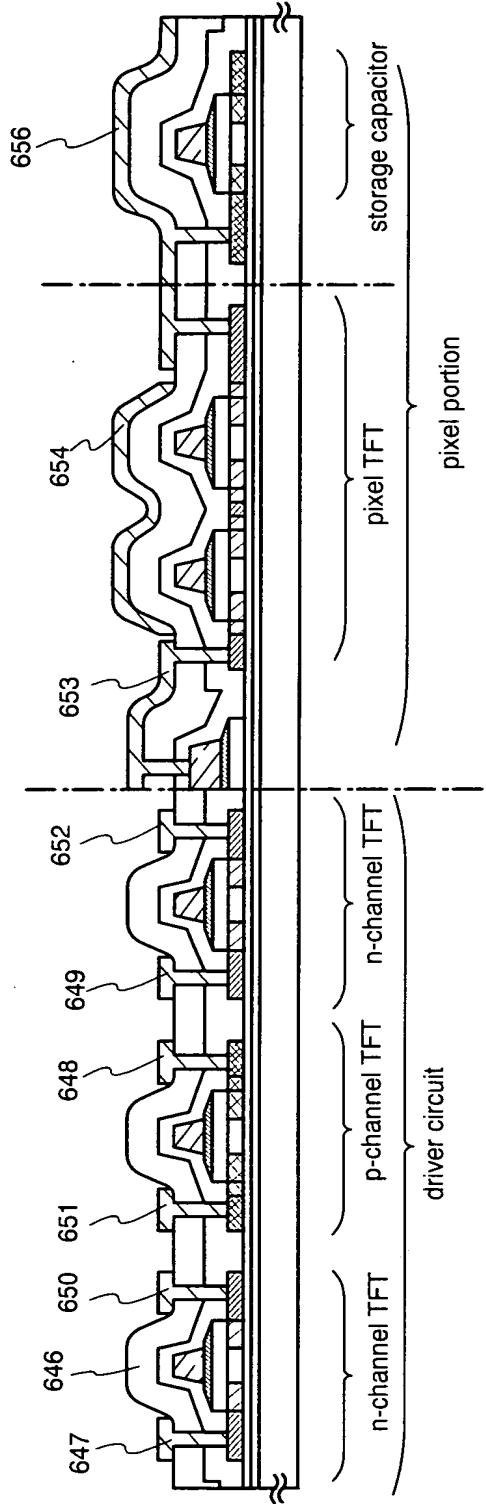
Fig. 16C



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Fig. 17



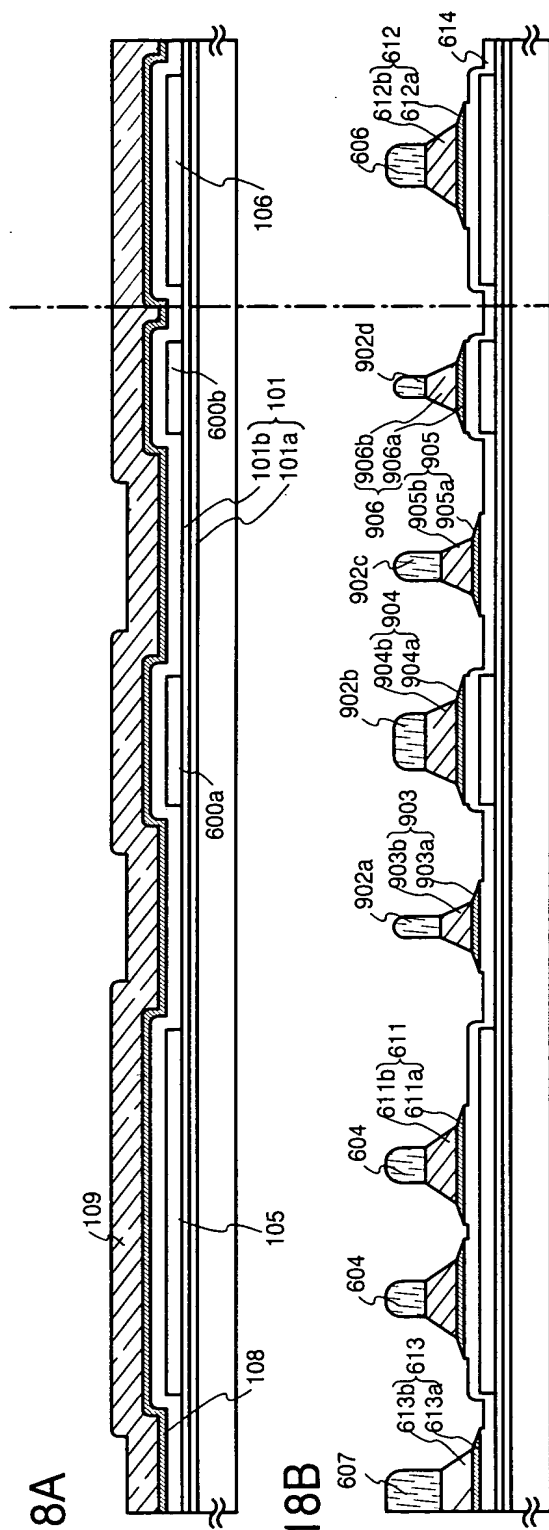


Fig. 18A

Fig. 18B

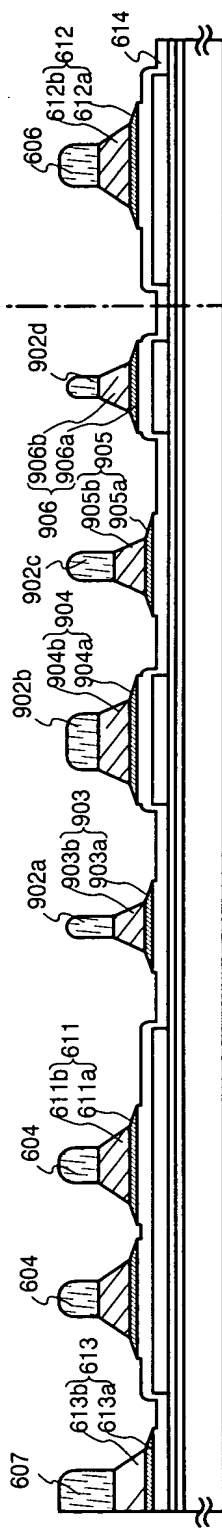


Fig. 18C

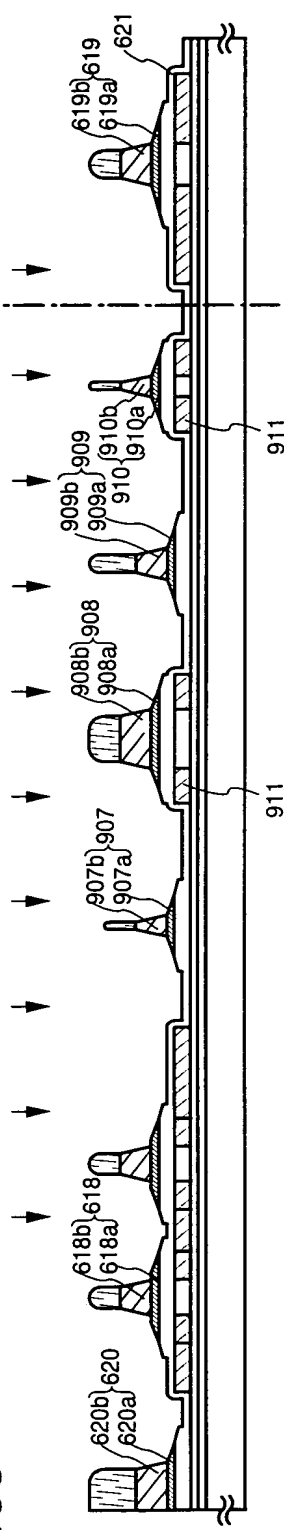


Fig. 18D

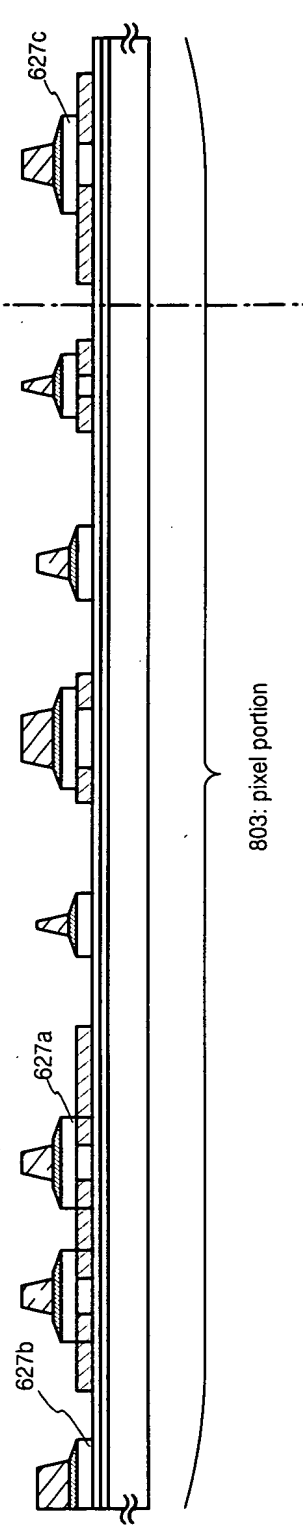


FIG. 19A

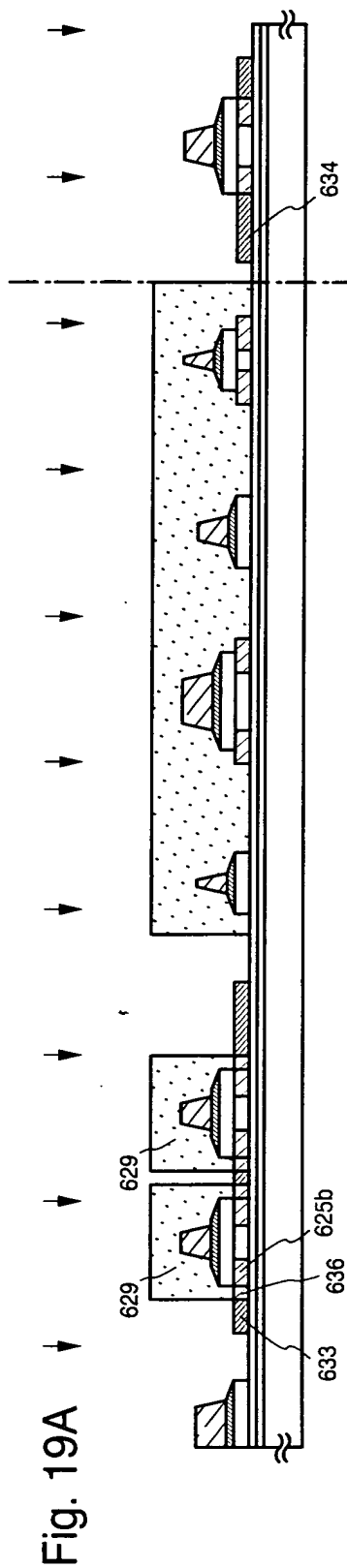


Fig. 19B

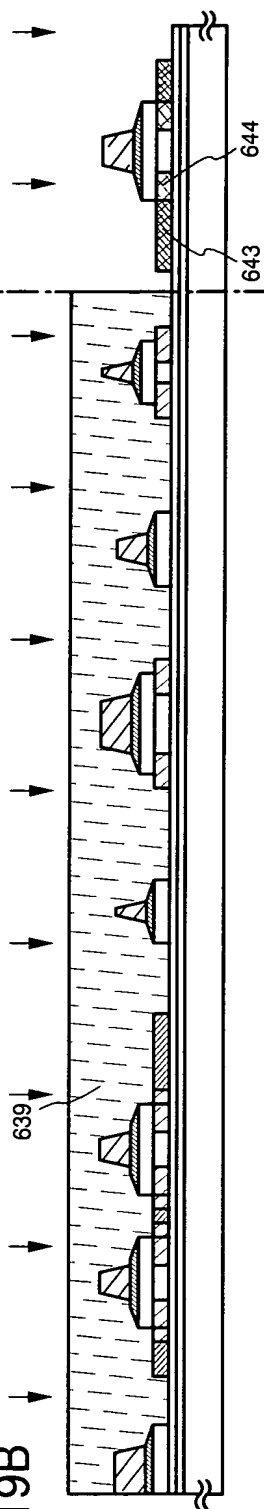
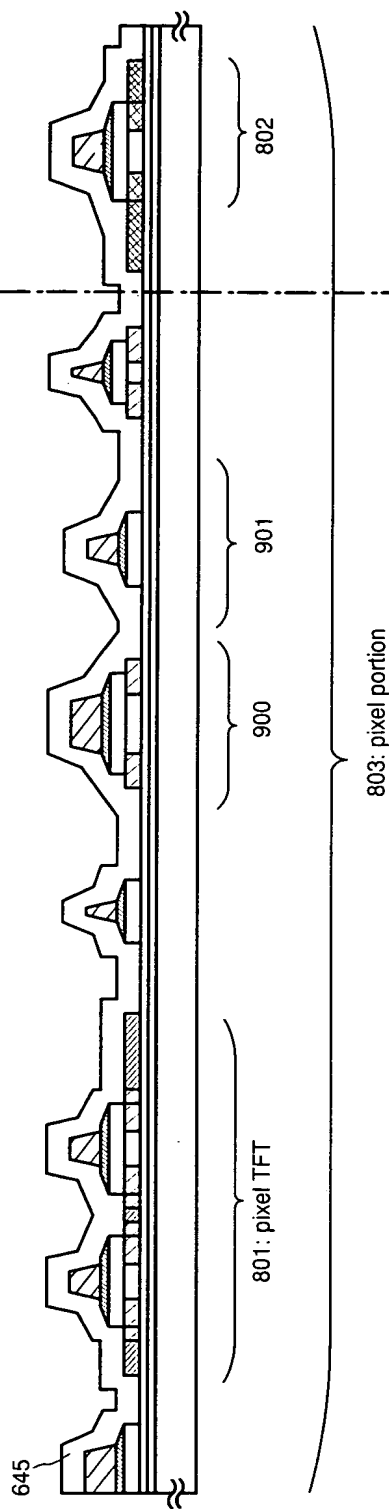


Fig. 19C



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FIG. 20

Fig. 20

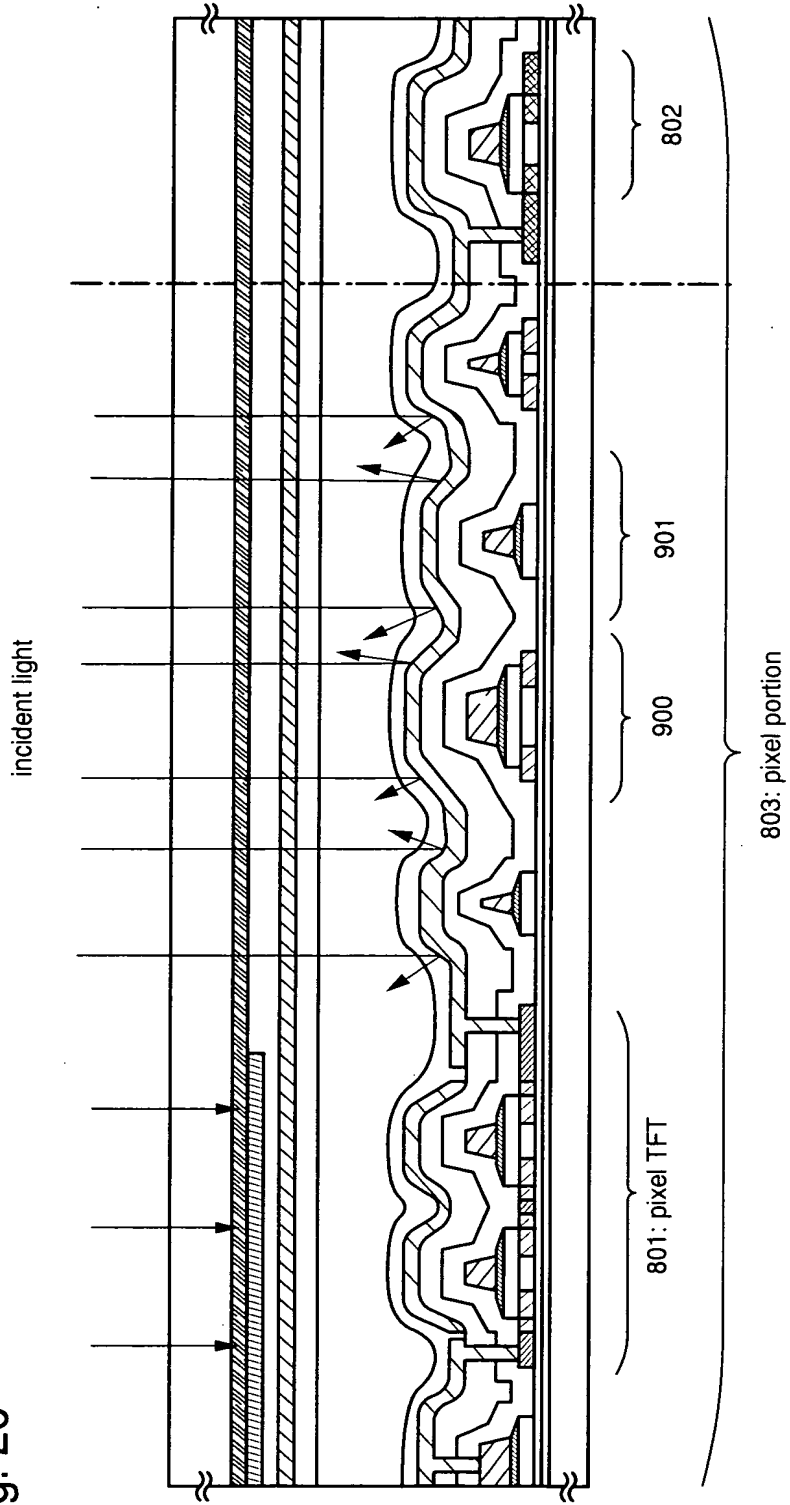


FIG. 21A

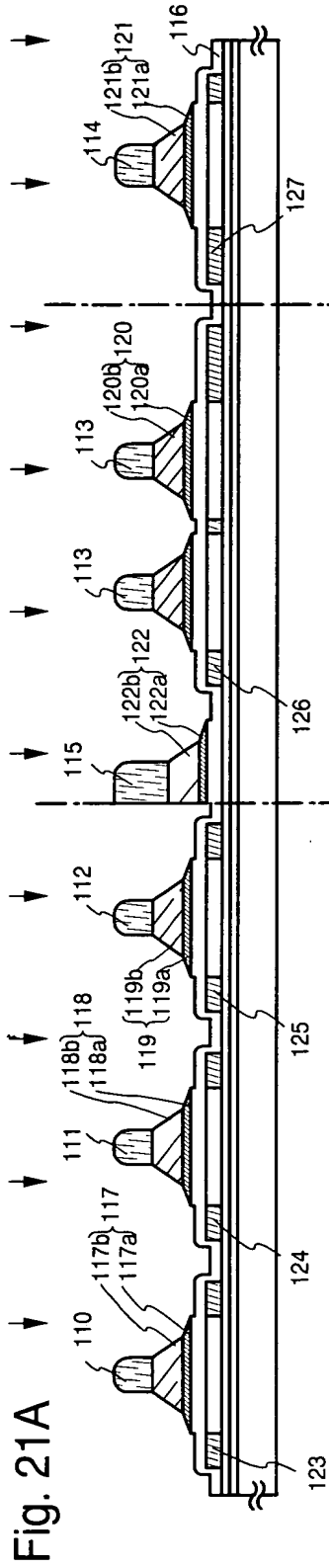


Fig. 21B

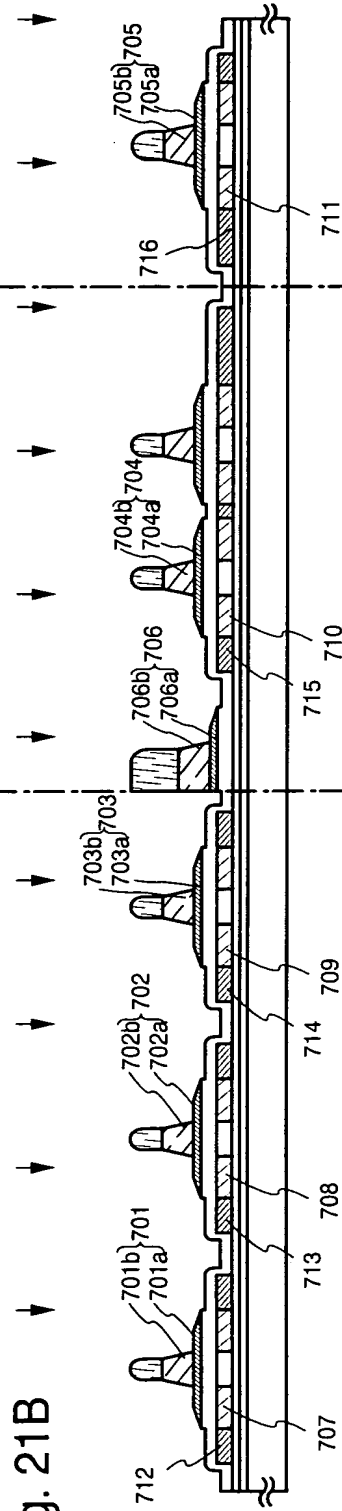


Fig. 21C

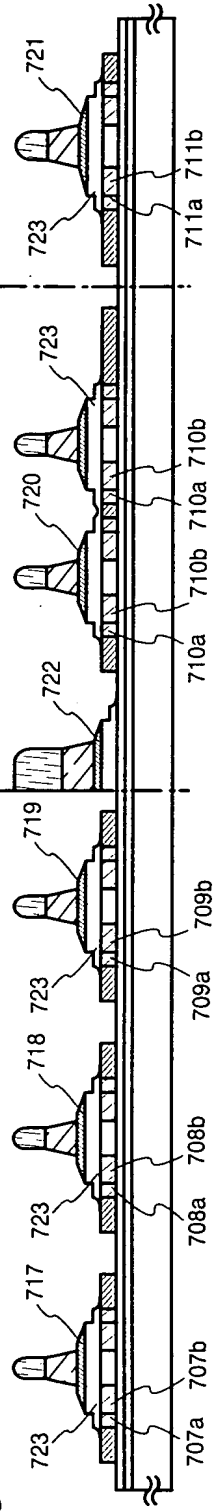


FIG. 22A

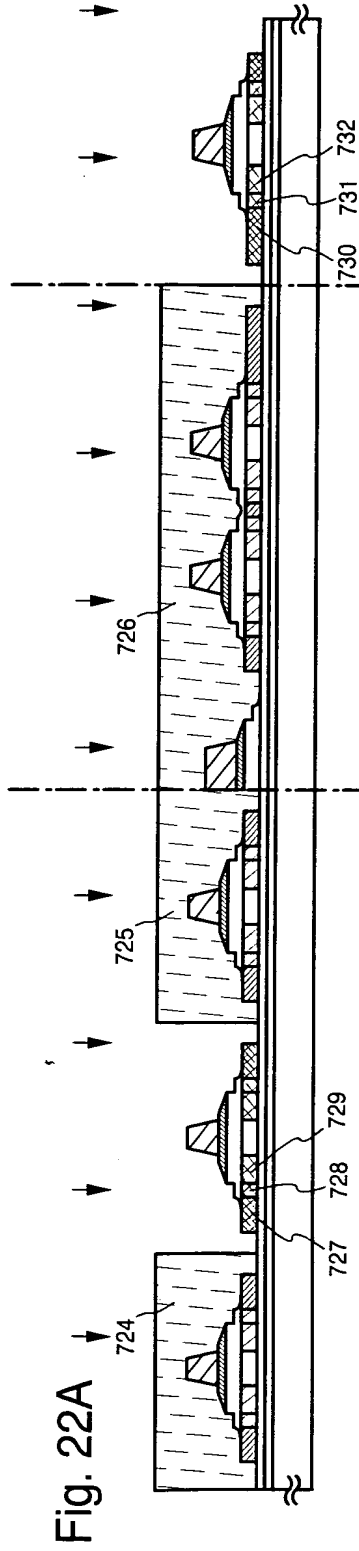


Fig. 22B

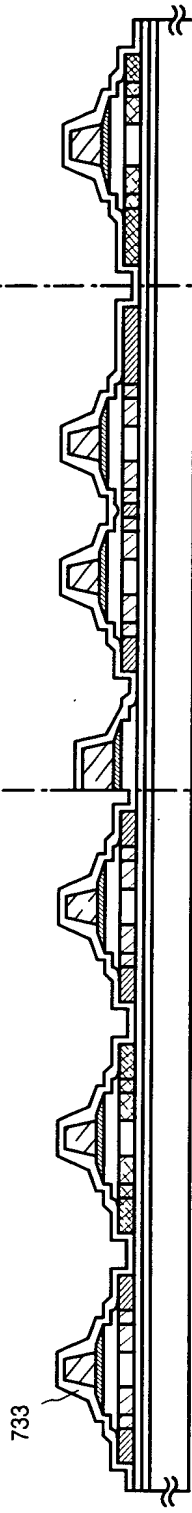


Fig. 22C

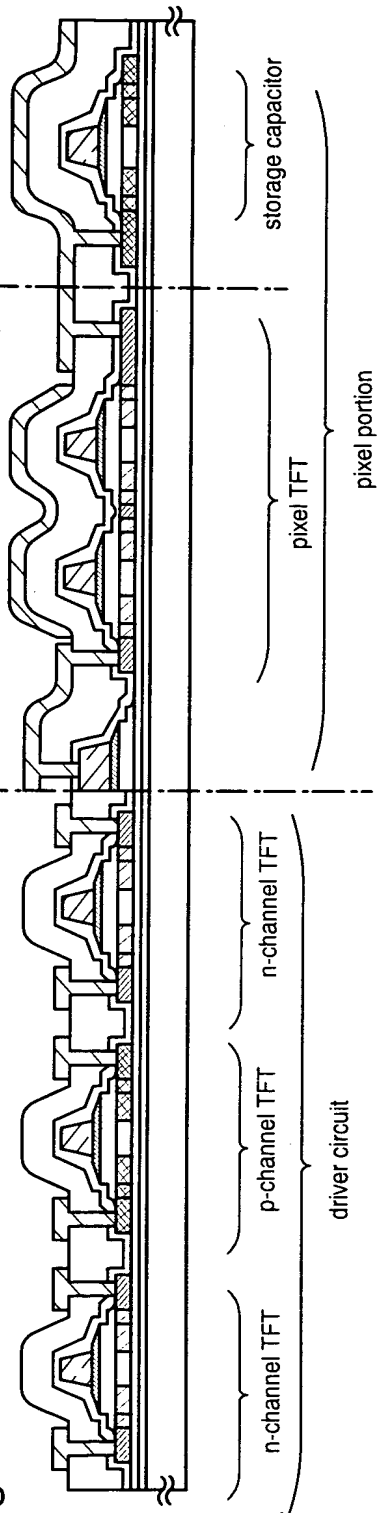


FIG. 23

Fig. 23

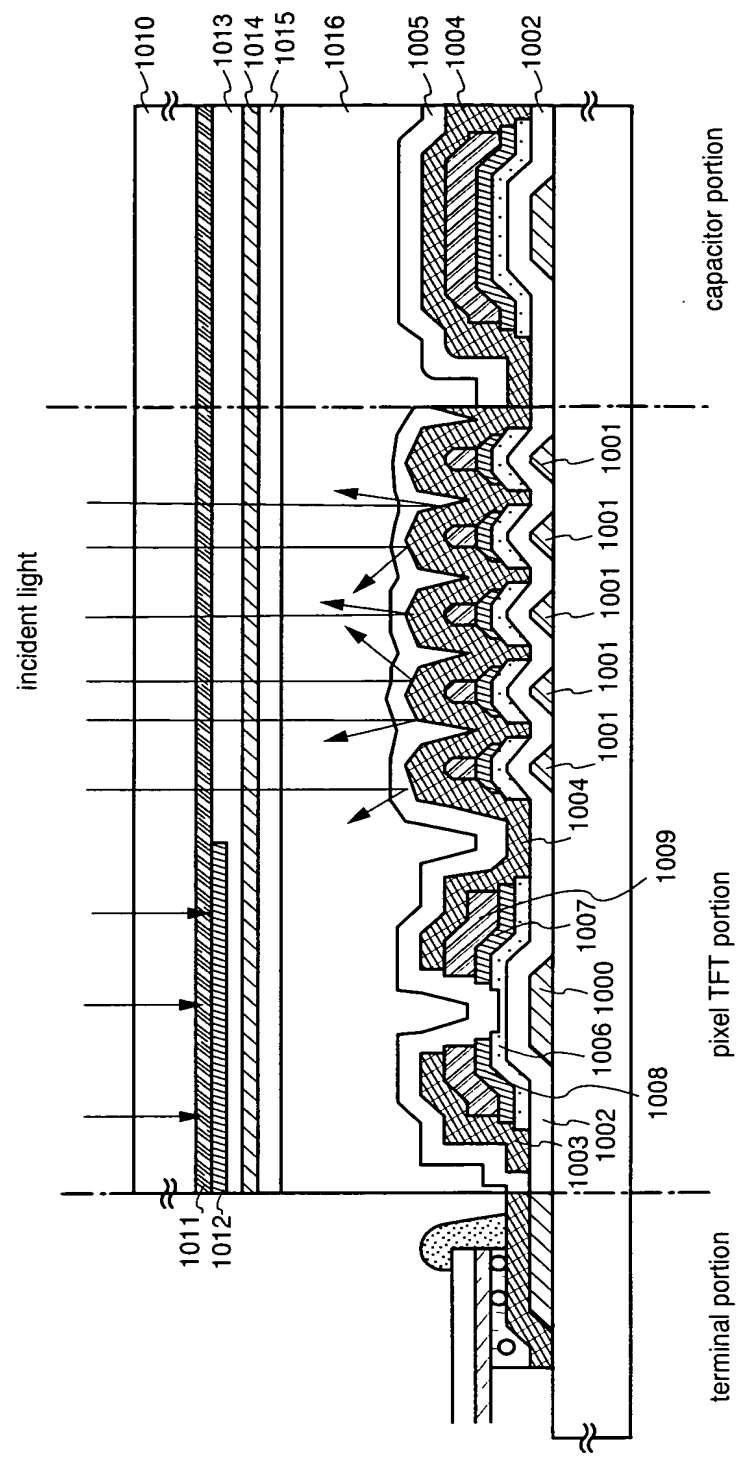


Fig. 24

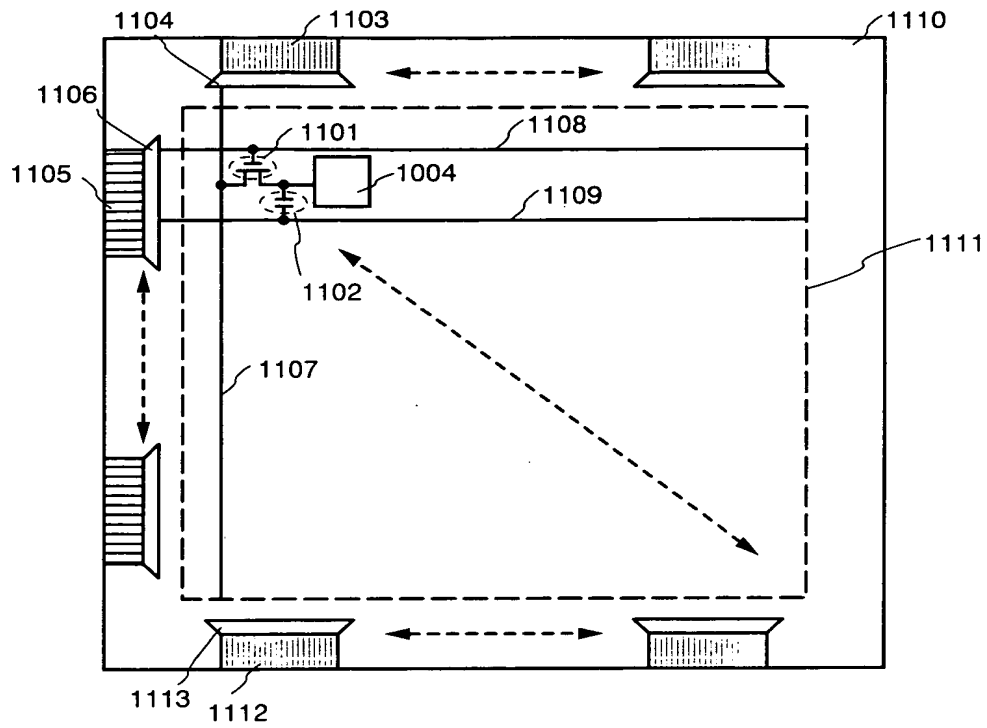


FIG. 24

FIG. 25

Fig. 25

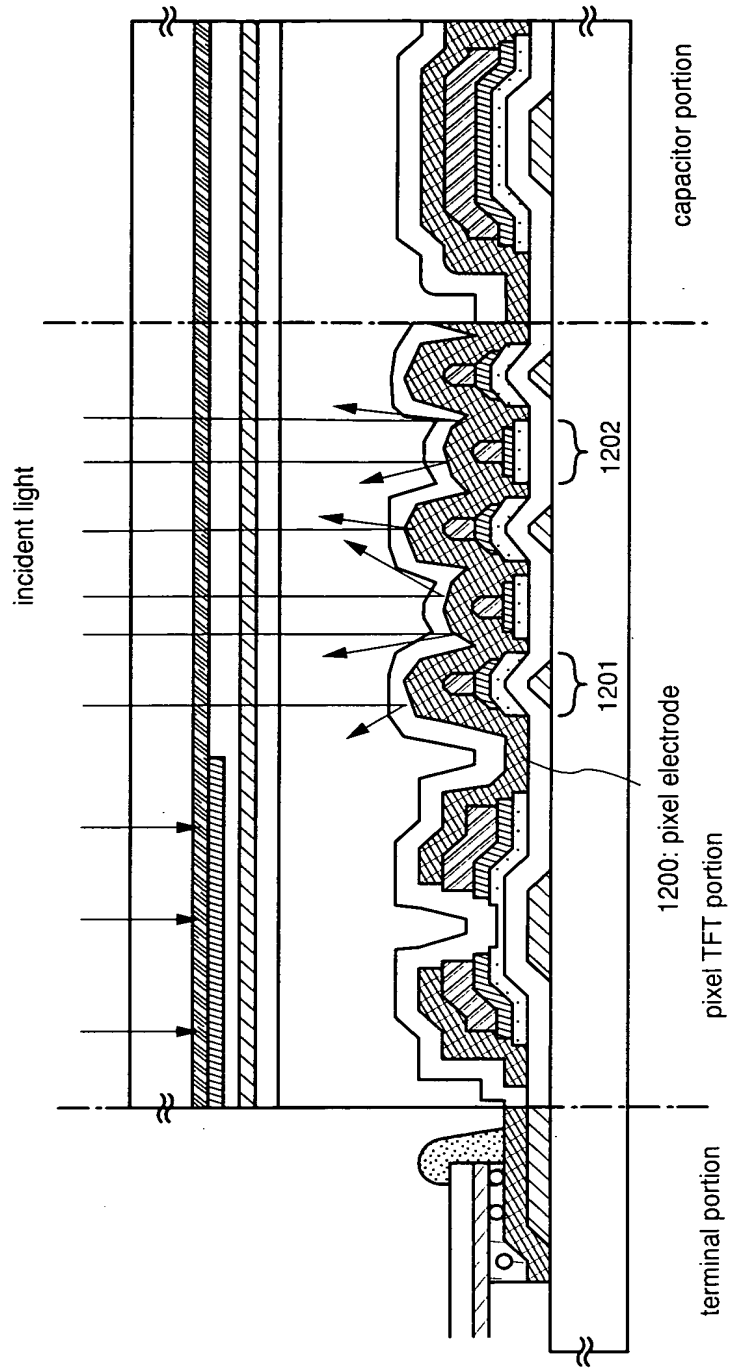
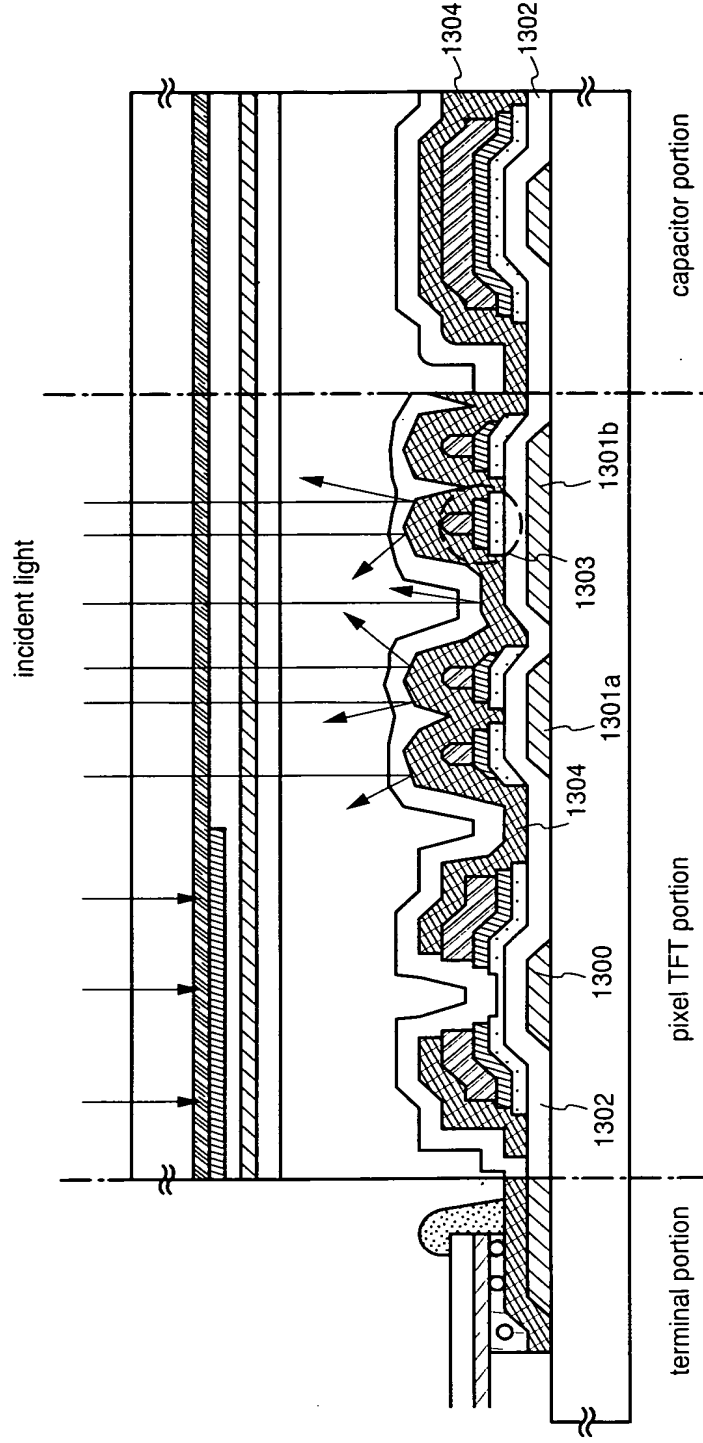


FIG. 26

Fig. 26



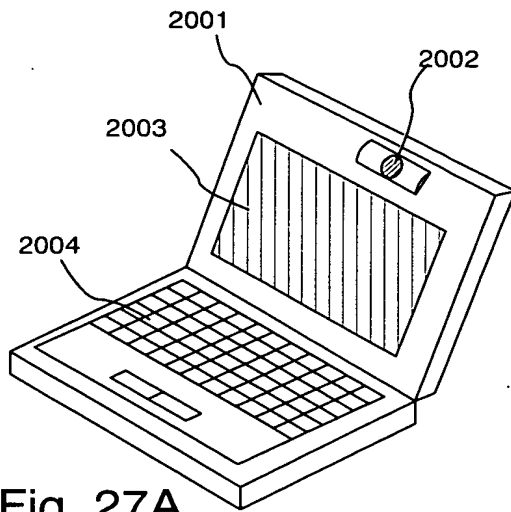


Fig. 27A

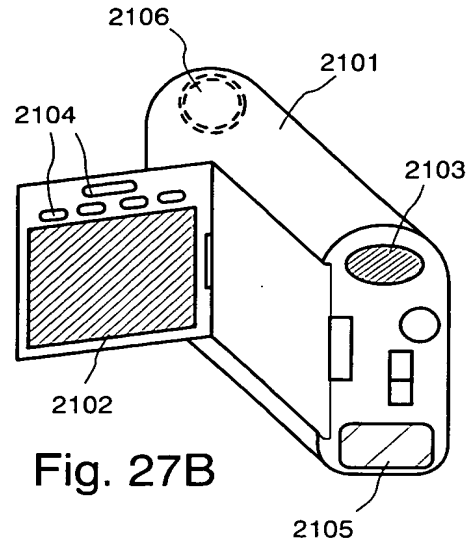


Fig. 27B

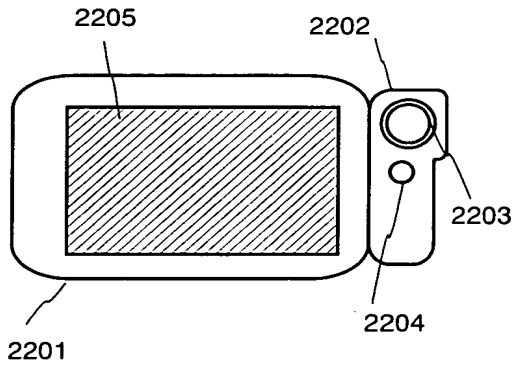


Fig. 27C

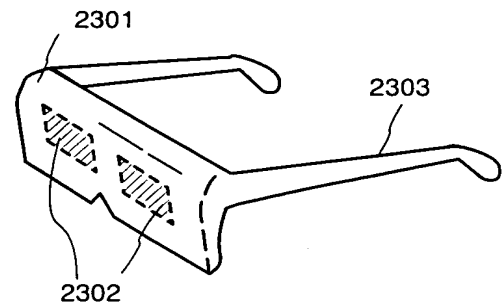


Fig. 27D

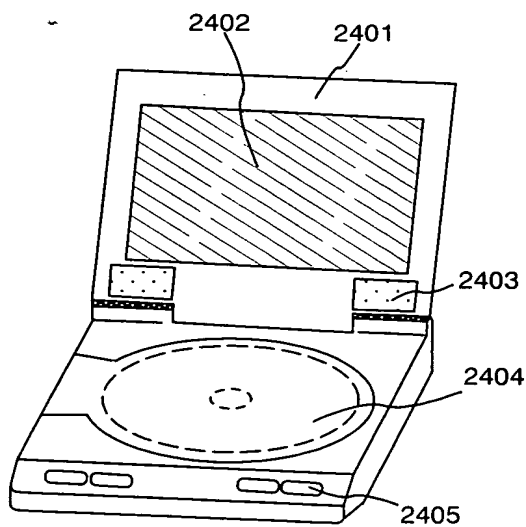


Fig. 27E

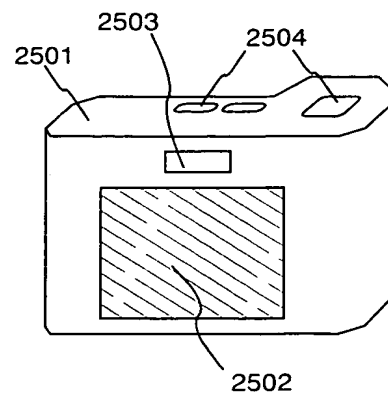


Fig. 27F

2001 2002 2003 2004 2106 2101 2104 2103 2102 2105 2205 2202 2203 2204 2201 2301 2303 2302 2402 2401 2403 2404 2405 2503 2504 2501 2502

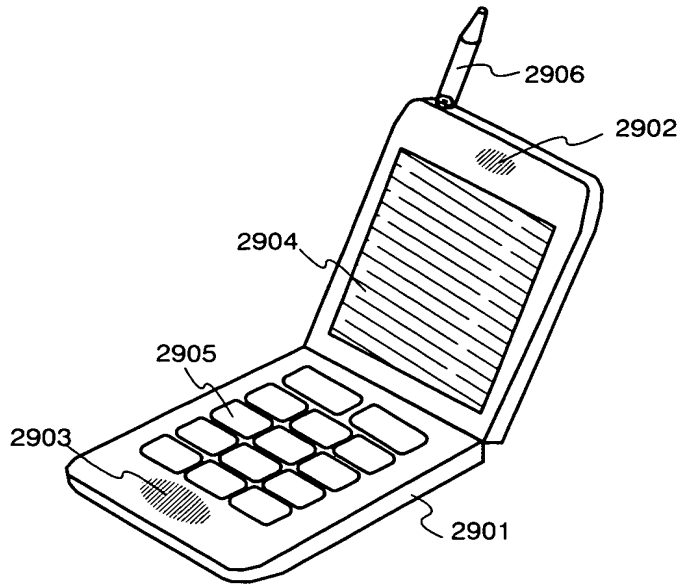


Fig. 28A

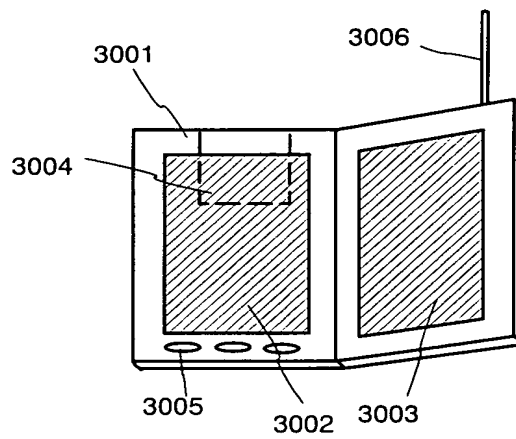


Fig. 28B

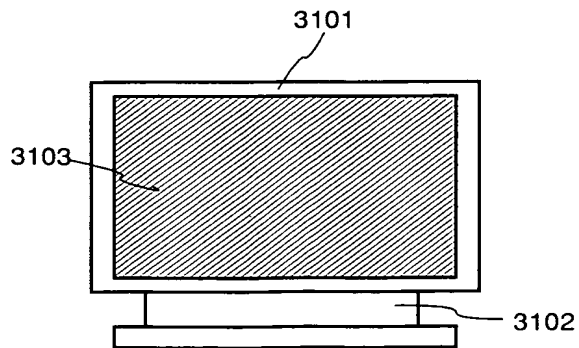
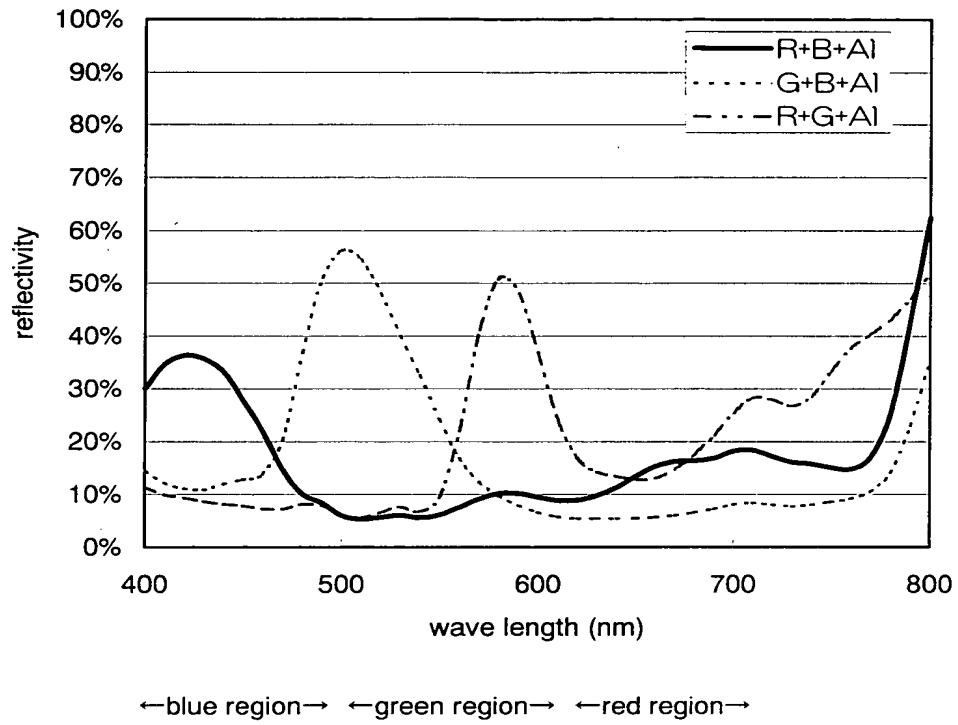


Fig. 28C

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Fig. 29



APPROVED	O.G. FIG.
BY	CLASS
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Fig. 30 prior art

